

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re PATENT APPLICATION of  
GLENN et al.

Appln. No.: 09/311,720

Filed: May 14, 1999

FOR: SKIN-ACTIVE ADJUVANTS FOR TRANSCUTANEOUS IMMUNIZATION



Group Art Unit: 1644

Examiner: NOT ASSIGNED

1644  
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December 29, 1999

**INFORMATION DISCLOSURE STATEMENT**

Hon. Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

Sir:

Attached is Form PTO-1449 listing the enclosed documents .

This IDS is intended to be in full compliance with the rules, but should the Examiner find any part of its required content to have been omitted, prompt notice to that effect is earnestly solicited, along with additional time under Rule 97(f), to enable Applicant to comply fully.

Should a first action on the merits have been issued on the same day or before this IDS is filed, please accept this IDS under Rule 97(c) and charge the requisite Rule 17(p) fee to our Deposit Account No. 03-3975 under Order No. (81255/256865) and proceed to consider this IDS.

Applicants respectfully request the Examiner to consider each of the documents supplied herewith. It is furthermore respectfully requested that the

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Examiner confirm the careful and independent consideration in the next official communication by return of an initialed and dated PTO-1449 form in accordance with the provisions of MPEP 609.

Respectfully submitted,

PILLSBURY MADISON & SUTRO LLP

By

  
Paul N. Kokulis

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FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PM&S FORM PAT-1449)  
Patent and Trademark Office

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Dkt. No.

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254809

1001CIP2

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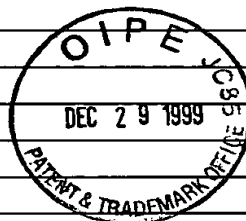
16

Examiner: not assigned

Group Art Unit: 1644

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR 4,235,871	11/1980	Papahadjopoulos et al.			
	BR 4,394,448	07/1983	Szoka, Jr., et al.			
	CR 4,497,796	02/1985	Salser et al.			
	DR 5,240,846	08/1993	Collins et al.			
	ER 5,399,346	03/1995	Anderson et al.			
	FR 5,328,470	07/1994	Nabel et al.			
	GR 5,580,859	12/1996	Felgner et al.			
	HR 5,589,466	12/1996	Felgner et al.			
	IR 5,593,972	01/1997	Weiner et al.			
	JR 5,620,896	04/1997	Herrmann et al.			
	KR 5,643,578	07/1997	Robinson et al.			
	LR 5,676,954	10/1997	Brigham			
	MR 5,679,647	10/1997	Carson et al.			
	NR 5,693,622	12/1997	Wolff et al.			



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							Enclosed	No	Enclose	No
	OR WO 99/41366	08/1999	WIPO						X	
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**OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)**

YR	Hongran FAN et al., "Immunization via hair follicles by topical application of naked DNA to normal skin", Nature Biotechnology, Vol. 17, September 1999, pp. 870-872									
ZR	Mara BOVSUN, "DNA vaccine rubbed on skin provokes immune response", Biotechnology Newswatch, September 20, 1999, page 4									
AAR										
BBR										
CCR										
DDR										

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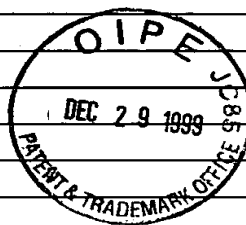
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	AR 5,697,901	12/1997	Eriksson			
	BR 5,703,057	12/1997	Johnston et al.			
	CR 5,705,151	01/1998	Dow et al.			
	DR 5,733,762	03/1998	Midoux et al.			
	ER 5,736,524	04/1998	Content et al.			
	FR 5,739,118	04/1998	Carrano et al.			
	GR 5,770,580	06/1998	Ledley et al.			
	HR 5,783,567	07/1998	Hedley et al.			
	IR 5,804,566	09/1998	Carson et al.			
	JR 5,811,406	09/1998	Szoka, Jr. et al.			
	KR 5,814,617	09/1998	Hoffman et al.			
	LR 5,824,538	10/1998	Branstrom et al.			
	MR 5,827,703	10/1998	Debs et al.			
	NR 5,830,876	11/1998	Weiner et al.			



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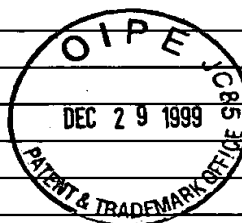
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	BR 5,840,059	11/1998	March et al.			
	CR 5,843,913	12/1998	Li et al.			
	DR 5,846,949	12/1998	Wagner et al.			
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	FR 5,858,784	01/1999	Debs et al.			
	GR 5,866,553	02/1999	Donnelly et al.			
	HR 5,877,159	03/1999	Powell et al.			
	IR 5,885,971	03/1999	German et al.			
	JR 5,910,488	06/1999	Nabel et al.			
	KR 5,916,879	06/1999	Webster			
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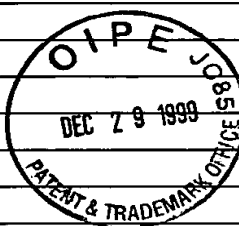
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	BR 5,108,921	04/1992	Low et al.			
	CR 5,166,320	11/1992	Wu et al.			
	DR 5,225,182	07/1993	Sharma			
	ER 5,428,132	06/1995	Hirsch et al.			
	FR 5,547,932	08/1996	Curiel et al.			
	GR 5,578,475	11/1996	Jessee			
	HR 5,614,503	03/1997	Chaudhary et al.			
	IR 5,661,025	08/1997	Szoka, Jr., et al.			
	JR 5,695,991	12/1997	Lindholm et al.			
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	LR 5,766,899	06/1998	Kuo et al.			
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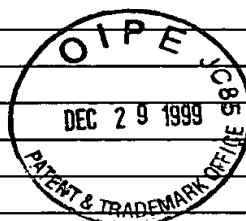
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	BR 5,844,107	12/1998	Hanson et al.			
	CR 5,846,540	12/1998	Restifo et al.			
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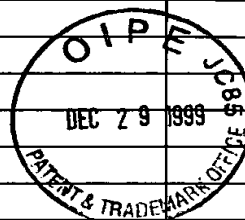
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	BR	4,921,757	WHEATLEY			
	CR	5,008,050	CULLIS			
	DR	5,059,421	LOUGHREY			
	ER	5,169,637	LENK			
	FR	5,200,393	WEINER			
	GR	5,256,422	ALBERT			
	HR	5,326,790	THORNFELDT			
	IR	5,332,576	MANTELLE			
	JR	5,340,588	DOMB			
	KR	5,352,449	BELTZ			
	LR	5,464,386	HOFMANN			
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	PR	92/03122 ✓	03/1992	WO	CEVC					
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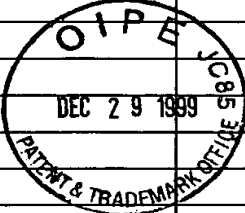
YR	ALVING, Vaccine, 4:166-172, 1986 ✓			
ZR	ALVING, Journal of Immunological Methods, 140:1-13, 1991 ✓			
AAR	ALVING, Immunobiology, 187:430-446, 1993 ✓			
BBR	ALVING, Annals of the New York Academy of Sciences, 690:265-275, 1993 ✓			
CCR	ALVING, AIDS Research and Human Retroviruses, 10:S91-S94, 1994 ✓			
DDR	ALVING, Immunological Reviews, 145:5-31, 1995 ✓			

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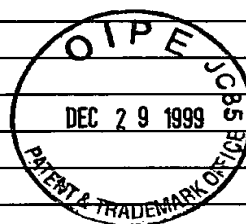
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U.S. PATENT DOCUMENTS											
Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)				
	AR	4,455,142	06/1984	MARTINS							
	BR	4,484,923	11/1984	AMKRAUT							
	CR	4,876,278	10/1989	TAYLOR							
	DR	4,877,612	10/1989	BERGER							
	ER	4,929,442	05/1990	POWELL							
	FR	5,260,066	11/1993	WOOD							
	GR	5,601,827	02/1997	COLLIER							
	HR	5,607,691	03/1997	HALE							
	IR	5,686,100	11/1997	WILLE et al.							
	JR	5,733,572	03/1998	UNGER et al.							
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	ZR	FLEISHER, <i>Life Sciences</i> , 57:1293-1297, 1995									
	AAR	GLENN, <i>Immunology Letters</i> , 47:73-78, 1995									
	BBR	GUPTA, <i>Vaccine</i> , 13:1263-1276, 1995									
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	DDR	KORTING, <i>Journal of the American Academy of Dermatology</i> , 25:1068-1071, 1991									
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Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
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	BR	4,725,271	02/1988	Korol			
	CR	4,732,892	03/1988	Sarpotdar et al.			
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	KR	4,946,853	08/1990	Bannon et al.			
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	ZR	MENGIARDI, <i>Vaccine</i> , 13:1306-1315, 1995									
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	BBR	MOGHIMI, <i>Journal of Microencapsulation</i> , 10:155-162, 1993									
	CCR	NORIMATSU, <i>Vaccine</i> , 13:1325-1329, 1995									
	DDR	PAUL, <i>Vaccine Research</i> , 4:145-164, 1995									

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		FR 5,030,629	07/1991	Rajadhyaksha							
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		HR 5,041,439	08/1991	Kasting et al.							
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OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)											
	YR	PAUL, <i>European Journal of Immunology</i> , 25:3521-3524, 1995 ✓									
	ZR	POWERS, <i>Vaccine</i> , 13:1330-1335, 1995 ✓									
	AAR	RANADE, <i>Journal of Clinical Pharmacology</i> , 31:401-418, 1991 ✓									
	BBR	RAO, <i>Infection and Immunity</i> , 63:2396-2402, 1995 ✓									
	CCR	SAUZET, <i>Vaccine</i> , 13:1339-1345, 1995 ✓									
	DDR	SCHÄFER-KORTING, <i>Journal of the American Academy of Dermatology</i> , 21:1271-1275, 1989 ✓									
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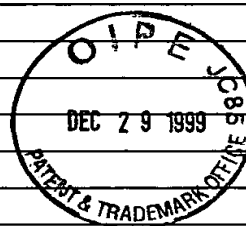
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Examiner: not assigned

Group Art Unit: 1644

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	KR 5,332,577	07/1994	Gertner et al.			
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ZR	VERMA, <i>Infection and Immunity</i> , 60:2438-2444, 1992	✓
AAR	VUTLA, <i>Journal of Pharmaceutical Sciences</i> , 85:5-8, 1996	✓
BBR	WANG, <i>The Journal of Immunology</i> , 156:4079-4082, 1996	✓
CCR	WANG, <i>The Journal of Immunology</i> , 154:2784-2793, 1995	✓
DDR	WASSEF, <i>Immunomethods</i> , 4:217-222, 1994	✓

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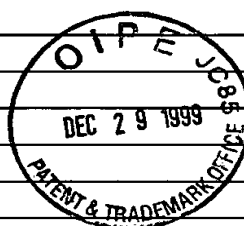
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Examiner: not assigned

Group Art Unit: 1644

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ZR	WHITE, <i>Vaccine</i> , 11:1341-1346, 1993 ✓			
AAR	WHITE, <i>Vaccine</i> , 13:1111-1122, 1995 ✓			
BBR	YASUTOMI, <i>Journal of Virology</i> , 69:2279-2284, 1995 ✓			
CCR	ZELLMER, <i>Biochimica et Biophysica Acta</i> , 1237:176-182, 1995 ✓			
DDR	ALVING, In: <i>Liposome Technology</i> , 2nd Ed. (Gregoriadis, ed.), CRC Press, pp. 317-343, 1993 ✓			

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Applicant: GLENN et al.							
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<b>U.S. PATENT DOCUMENTS</b>											
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	WR	SMALL, In: <i>Handbook of Lipid Research</i> , Plenum, 4:43-87 ✓									
	XR	SMALL, In: <i>Handbook of Lipid Research</i> , Plenum, 4:89-96 ✓									
	YR	CRAIG, John P., et al., "Cutaneous Responses to Cholera Skin Toxin in Man. I. Responses in Unimmunized American Males", <i>The Journal of Infectious Diseases</i> , 1972, Vol. 125, No. 3, pp 203-215 ✓									
	ZR	Marinaro, M., et al., Mucosal effect of cholera toxin in mice results from induction of T helper 2 (Th2) cells and IL-4 <i>J. Immunol.</i> 155: 4621-4629 ✓									
	AAR	Kosecka, V., et al., Pertussis toxin stimulates hypersensitivity and enhances nerve-mediated antigen uptake in rat intestines, <i>Am. J. Physiology</i> , 267: G745-G752 ✓									
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	ZR	BLAUVELT, <i>Journal of Investigative Dermatology</i> , 104:293-296, 1995 ✓							
	AAR	BOWEN, <i>Immunology</i> , 81:338-342, 1994 ✓							
	BBR	CHIN, <i>Veterinary Microbiology</i> , 43:21-32, 1995 ✓							
	CCR	CHIN, <i>Journal of Biotechnology</i> , 44:13-19, 1996 ✓							
	DDR	CONDON, <i>Nature Medicine</i> , 2:1122-1128, 1996 ✓							
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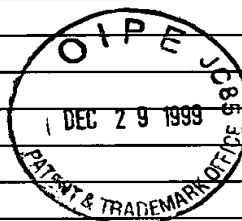
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Examiner: not assigned

Group Art Unit: 1644

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ZR	GOODNOW, <i>Immunological Reviews</i> , 156:5-10, 1997 ✓			
AAR	KNOP, <i>International Archives of Allergy and Immunology</i> , 107:231-232, 1995 ✓			
BBR	MAHMOUD, <i>Science</i> , 246:1015-1022, 1989 ✓			
CCR	PETERS, <i>Immunology Today</i> , 17:273-278, 1996 ✓			
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AAR	STINGL, <i>Immunological Series</i> , 46:3-72, 1989				
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CCR	Hsiung, et al., <i>Diagnostic Virology</i> 3 <sup>rd</sup> edition, Yale Univ. Press, New Haven, Ct, pp 29-34.				
DDR	Lane et al., In <i>Vitro</i> -evaluation of human lymphocyte function, In: <i>Cellular Immunology</i> , DM Weir, ed, Blackwell Scientific Pub. Boston, MA, pp 66.5-66.7				

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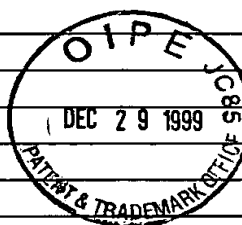
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